- 6 Ameritech?
- 7 A. I have some knowledge of that.
- Q. In fact, the FCC describes SBC's proposal
- 9 for that in paragraph 31. Is that correct?
- 10 A. I'm taking just a second to look at that,
- 11 if that's okay.
- 12 Q. Take your time.
- 13 (Brief pause in the proceedings.)
- 14 A. Yes, they have described that process.
- 15 Q. And they describe the process as being
- 16 akin to ordering unbundled network elements,
- 17 including submitting a local service request. Is
- 18 that right?
- 19 A. I think all they're just saying is we're
- 20 using the LSR process for ordering the individual
- 21 end user services through the Pronto architecture,
- 22 and I think they're just noting that that's the

- 1 process that CLECs are already using today to order
- 2 unbundled network elements. I think that's a
- 3 convenience, in a sense, because you're not having
- 4 to do -- to order the wholesale Broadband Service
- 5 under a totally separate process.
- 6 Q. And a CLEC to order it has to order two
- 7 separate subloops from SBC/Ameritech, the subloop
- 8 between the central office and the remote terminal
- 9 and then the subloop between the remote terminal and
- 10 the customer's premise. Is that right?
- 11 A. Well, basically -- not exactly like that.
- 12 What's happening is a single LSR provides both of
- 13 those parts of the network. They're established as
- 14 two separate pieces for billing purposes, but it's
- 15 not like a CLEC has to say I would like, you know,
- one of these and one of these, as I recall. I
- 17 believe they just say I would like to have this LSR
- 18 provide this DSL service to this end user.
- 19 Ms. Chapman could elaborate on that or
- 20 correct any misstatements that I might be making
- 21 about that ordering process.
- 22 Q. Thank you.

- 1 A. She's very good about all that.
- 2 Q. Thank you, Mr. Lube.
- 3 Mr. Lube, one of the contentions of my
- 4 client, Sprint, in this case is that the Broadband
- 5 offering cannot be individualized to a particular
- 6 CLEC's liking. I understand there is some language
- 7 from the SBC -- or from the Project Pronto Order
- 8 where SBC has said, hey, CLECs, we will be able to
- 9 individualize your offerings for you. When can we
- 10 expect to see those types of offerings to be
- 11 available for CLECs?
- 12 A. I believe there's two parts to the answer
- 13 to that question as well. Even with the existing
- 14 ADSL type service that can be provided over the
- 15 Broadband or through the Broadband Service, there
- 16 are various speed combinations that a particular
- 17 CLEC may choose to offer and market to its
- 18 customers, and any of those speed combinations
- 19 available with that ADLU card for ADSL are available Page 36

- 20 right now --
- 21 Q. The current card --
- 22 A. -- for CLECs.

- 1 Q. Excuse me for interrupting, but that's the
- 2 current card that Ameritech is installing in the
- 3 remote terminals. Is that correct?
- 4 A. Yes, because it's the card that's
- 5 currently available from the manufacturer.
- 6 Q. Okay. So that card that's currently
- 7 available, you're stating that there may be some
- 8 speed differences that a CLEC can order using the
- 9 installed system that is coming on line.
- 10 A. Well, not that there may be but that there
- 11 are. There are different speed combinations, and a
- 12 given CLEC, as I might have mentioned just in
- 13 passing yesterday, a given CLEC who wants to offer
- 14 or market various combinations to its end users

- 15 would establish a profile for each of those
- 16 combinations and then apply that profile on an
- 17 as-sold to their end user basis to each DSL service
- 18 that they order.
- 19 Q. But right now that's just ADSL service.
- 20 Correct?
- 21 A. That's the only card that's available
- 22 right now.

- 1 Q. Okay.
- 2 A. Now the second part to your question
- 3 related to -- I believe relates to future functions
- 4 and features that may be made available in future
- 5 cards, and, as I explained very thoroughly I believe
- 6 yesterday, SBC is looking or it will be -- is now
- 7 and will continue to be looking at making those
- 8 other features and functions available, but with the
- 9 consideration in mind for making sure that there's

- 10 no harm done to the capacity of the platform or the
- 11 service quality of any other end users that are
- 12 using that shared facility.
- 13 Q. Do you have any schedule for when
- 14 deployment of future cards will be accomplished?
- 15 A. I do not have any of that information with
- 16 me now, and that really is dependent on the
- 17 manufacturer, and I know, frankly, their schedules
- 18 change, and they're at the manufacturer's ability.
- 19 It's not something that Ameritech Illinois
- 20 establishes for the vendor.
- 21 Q. Three months? Six months? Nine months?
- 22 Do you have any idea?

- 1 A. I don't have any specific information
- 2 right this minute on any particular card type.
- 3 Q. One of the other options that a CLEC can
- 4 do besides buying the Broadband Service offering is Page 39

- 5 to collocate at a remote terminal and purchase a
- 6 subloop from Ameritech. Is that correct?
- 7 A. Yes, sir, that's correct.
- 8 Q. Okay. And you describe that as an
- 9 alternative to line sharing for the CLEC. Is that
- 10 right?
- 11 A. No, sir.
- 12 Q. Okay. So it's not a line sharing type
- 13 arrangement. Right?
- 14 A. No, sir, it's not an alternative to line
- 15 sharing. It's one manner in which you may achieve
- 16 line sharing, and what I mean by that is if you
- 17 collocate a stand-alone DSLAM in a remote terminal
- and you use a copper subloop out to the end user's
- 19 premises, you will be line sharing over that copper
- 20 subloop, and, in fact, the Line Sharing Order
- 21 specifically addresses that type of line sharing.
- Q. Okay. Or the CLEC can purchase the entire

- 1 subloop? Is that another option?
- 2 A. When you say the entire subloop, do you
- 3 mean the entire loop all the way back to the central
- 4 office?
- 5 Q. Well, maybe we're talking passed each
- 6 other a little bit here. When the CLEC collocates
- 7 at the remote terminal, do they purchase from the
- 8 remote terminal to the customer premise an entire
- 9 subloop or do they only purchase a frequency portion
- 10 of that subloop?
- 11 A. Well, that would depend on if they are
- 12 line sharing, and I forget whether you qualified
- 13 that as part of your question, but if they're line
- 14 sharing, they would be purchasing an HFPL on that
- 15 subloop. If they're not share lining, they would be
- 16 purchasing the entire subloop.
- 17 MR. SCHIFMAN: Nothing further, Your Honor.
- 18 EXAMINER WOODS: Ms. Hamill?
- 19 MS. HAMILL: No, not from me.
- 20 EXAMINER WOODS: Mr. Harvey?
- 21 MR. HARVEY: No.
- 22 EXAMINER WOODS: Take a minute for redirect?

- 1 MR. BINNIG: I think we're ready for our
- 2 redirect now, if you'd like.
- 3 EXAMINER WOODS: Okay.
- 4 REDIRECT EXAMINATION
- 5 BY MR. BINNIG:
- 6 Q. Mr. Lube, do you recall that Mr. Bowen
- 7 asked you yesterday some questions about an
- 8 Ameritech Accessible Letter that I think was marked
- 9 Rhythms Lube Cross Exhibit 1, which is the
- 10 Accessible Letter dated May 24, 2000?
- 11 A. Yes, sir.
- 12 Q. And do you recall that Mr. Bowen called
- 13 your attention to a portion of that letter that
- 14 appeared on the top of the second page I believe
- 15 that referred to pending issues before the FCC, and
- 16 I believe your testimony was that you believed that
- 17 those pending issues referred to the waiver request
- 18 that was then pending where SBC had requested waiver Page 42

- 19 of the merger conditions with respect to its ILEC
- 20 ownerships of NGDLC line cards and OCDs?
- 21 A. Yes, that is correct.
- 22 Q. Has the Commission -- the FCC issued an

- 1 order with respect to that waiver request?
- 2 A. Yes, they have. They issued an order I
- 3 believe it was September the 8th of 2000.
- Q. And, briefly, what did the FCC do in that
- 5 order?
- 6 A. Very briefly, the FCC did grant the waiver
- 7 for the SBC ILECs to own the ADLU cards and the
- 8 NGDLC and to own the OCDs in the central office, and
- 9 that order was consistent with our Broadband Service
- 10 offering, so no change was required as a result of
- 11 that order.
- 12 Q. Let's go to one of the hypotheticals that
- 13 Mr. Bowen asked you. Do you recall several

- 14 questions Mr. Bowen asked you about cross-talk
- 15 issues yesterday?
- 16 A. Yes, I recall that discussion.
- 17 Q. And one of the hypotheticals he posited to
- 18 you involved a CLEC that was providing SDSL service
- 19 to an end user customer over a copper loop of 19,000
- 20 feet in length. Do you recall that?
- 21 A. Yes, I do recall that hypothetical.
- Q. Is SDSL a line sharing service?

- A. No, it is not. In fact, even the FCC has
- 2 recognized in its Line Sharing Order that SDSL is
- 3 not a type of DSL that you can line share with. The
- 4 SDSL frequencies go all the way into the voice band,
- 5 so it's not possible.
- 6 Q. And I believe the portion of your
- 7 testimony that Mr. Bowen had raised that
- 8 hypothetical with was where you had addressed the Page 44

- 9 ability of CLECs to continue line sharing over
- 10 copper loops in a Project Pronto environment. Is
- 11 that correct?
- 12 A. Yes, that's correct.
- 13 Q. Now, let's go to the issue of the
- 14 technical problems that you discuss in your
- 15 testimony relating to CLEC ownership of line cards
- 16 for Project Pronto NGDLCs, and do you recall
- 17 Mr. Bowen asking you a series of questions relating
- 18 to this issue?
- 19 A. Yes, I do.
- Q. And one of the questions Mr. Bowen asked
- 21 you I think had to do with -- I think he provided
- 22 you a hypothetical whereby a CLEC would want to use

- 1 a line card, an ADLU card manufactured by Alcatel at
- 2 some point that might be different from the ADLU
- 3 cards that AADS was interested in using for DSL

- 4 service that it was providing. Do you recall that
- 5 question?
- 6 A. Yes, I think I do recall that question.
- 7 Q. In answering that question, what did you
- 8 assume regarding the ownership of those line cards,
- 9 either the line card that was being used for AADS to
- 10 provide service or the line card that was being used
- 11 for the CLEC to provide service?
- 12 A. In that discussion I was assuming that the
- 13 ILEC owned the line card; in other words, Ameritech
- 14 Illinois owned the line card.
- 15 Q. So in your answer were you essentially
- 16 describing what you've discussed with Mr. Schifman
- 17 briefly here today, that is the Broadband Service
- 18 offerings and SBC's plan to make other Broadband
- 19 Services offerings available when they become
- 20 available from the manufacturer?
- 21 A. Yes, that's correct.
- 22 Q. Now, Mr. Bowen also asked you several

- 1 hypotheticals about the creation of new UNEs by the
- 2 Illinois Commission. Do you recall those questions?
- 3 A. Yes, I do.
- 4 Q. What is your understanding of a state
- 5 commission's ability to order the unbundling of a
- 6 network element that an ILEC has not deployed in its
- 7 network?
- 8 MR. SCHIFMAN: Objection. It calls for a legal
- 9 conclusion.
- 10 MR. BINNIG: I asked for his understanding.
- 11 EXAMINER WOODS: Answer.
- 12 A. Well, my understanding is our unbundling
- 13 obligations relate to our existing network. If it's
- 14 a type of technology or equipment that Ameritech
- 15 Illinois has not even deployed in its network, that
- 16 it would not be appropriate for that to be defined
- 17 as an unbundled network element by the Commission.
- 18 Q. Now, Mr. Bowen also asked you a number of
- 19 questions relating to SBC's retirement of copper
- 20 loop plant. Do you recall those questions?
- 21 A. Yes, I do.
- Q. And one of the questions I think Mr. Bowen
  Page 47

- l asked you was whether Ameritech or SBC had provided
- 2 a guarantee that it would not retire copper loop
- 3 after September 2003. Do you recall that question?
- 4 A. Yes, I do.
- 5 Q. Does SBC continue to add new copper loop
- 6 plant to its network as we sit here today?
- 7 A. Yes, it does, and, in fact, the decisions
- 8 to add copper versus fiber are made by engineering
- 9 people on a case-by-case or job-by-job basis, and
- 10 there are instances where copper is still the most
- 11 economical type of facility to deploy.
- 12 Q. Is your expectation that in September 2003
- 13 that SBC will be continuing to add new copper loop
- 14 plant to its network?
- 15 A. It is still possible at that point in time
- 16 that that would be the most economical choice in
- 17 specific situations.

- 18 Q. Mr. Bowen also asked you a number of
- 19 questions about Project Pronto deployment where he
- 20 asked you to assume that the Project Pronto network
- 21 was being built based on an expected penetration
- 22 rate for DSL services of 20 percent. Do you recall

- 1 that hypothetical?
- 2 A. I do recall that hypothetical assumption
- 3 of 20 percent take rate.
- 4 Q. Okay. I'd like you to make the same
- 5 assumption today, Mr. Lube. Based on that assumed
- 6 take rate, could Ameritech Illinois simply remove
- 7 from service all of its copper loop plant in October
- 8 2003?
- 9 A. Not at all.
- 10 Q. Why is that?
- 11 A. If you assume for a moment that there's a
- 12 20 percent take rate on DSL services, which means Page 49

- 13 that there's a potential for that many of the end
- 14 users to be served by the Project Pronto platform,
- 15 that still leaves 80 percent of the customers or end
- 16 users out there who have not taken DSL who are
- 17 receiving POTS service, and many of those POTS
- 18 services today are provided over copper loops or all
- 19 copper loops, and there is simply no capacity in the
- 20 Project Pronto architecture to make a wholesale
- 21 replacement of all of those POTS services that are
- 22 provided over copper today, so all of that copper

- 1 could not possibly be taken out.
- 2 Q. So, Mr. Lube, would you expect customers
- 3 that are served by copper plant today for POTS
- 4 service who don't elect to take DSL services, would
- 5 you expect them to continue to be served by that
- 6 copper loop plant in September 2003?
- 7 A. I would expect that to be the case for Page 50

- 8 many customers. It would not necessarily be the
- 9 case for all customers due to other required
- 10 rearrangements in the plant, in the loop plant, but
- 11 I would expect that to be the case for very many.
- 12 Q. Now, Mr. Bowen also asked you a number of
- 13 questions, and I believe the Hearing Examiner
- 14 followed up with a few questions, regarding your
- 15 testimony that allowing CLECs to own line cards for
- 16 the Project Pronto NGDLCs would increase the
- 17 potential for capacity exhaust for those NGDLCs. Do
- 18 you recall those questions?
- 19 A. Yes, and that capacity exhaust would occur
- 20 because not being able to achieve higher utilization
- 21 of the ports and the slots, you know, the card slots
- 22 in the NGDLC remote terminals.

- 1 Q. Okay. Now I believe that you testified
- 2 yesterday that that capacity exhaust problem would Page 51

- 3 not exist if the incumbent, in this case Ameritech
- 4 Illinois, owned the NGDLC line cards, and I'd like
- 5 you to explain why that's the case. We have an
- 6 easel here so Mr. Lube can draw an explanation,
- 7 which I think would be helpful.
- 8 EXAMINER WOODS: Did you say weasel?
- 9 (Laughter)
- 10 MR. BINNIG: Easel, easel.
- 11 MS. HIGHTMAN: Do you have a better pen than you
- 12 had in the last case?
- MR. BINNIG: We hope so; we hope so.
- 14 THE WITNESS: And, Your Honor, I think the point
- 15 that I'll be trying to show is that the potential
- 16 for under-utilization of this equipment is a lot
- 17 less with a single ILEC owning the cards than
- 18 multiple CLECs owning the cards.
- MR. BOWEN: Do I get to draw on recross?
- 20 THE WITNESS: If you use a different color on
- 21 the same picture maybe.
- MR. BINNIG: I think we have a few pads of

- 1 paper.
- 2 MR. BOWEN: Seriously, is this going to be an
- 3 exhibit in some fashion?
- 4 MR. BINNIG: Well, it's for demonstrative
- 5 purposes I think to help everyone understand. It's
- 6 up to the Hearing Examiner.
- 7 MR. BOWEN: You're going to have to reduce it I
- 8 think. The transcript will not make sense unless
- 9 you reduce it and make it an exhibit.
- MR. BINNIG: Well, we're not planning
- 11 necessarily to offer it, but we'd be happy to. We
- 12 do have reduced versions already available.
- 13 EXAMINER WOODS: If the point is simply that the
- 14 ILEC is going to be adding line cards as needed to
- where there might only be two ports or attachments
- 16 empty at any one time as opposed to letting the
- 17 CLECs have 15 cards, each of which may have 2
- 18 unused, and 30 is more than 2, then I understand
- 19 that. If that's the point, I understand that, but
- 20 the point I was making is that as the testimony
- 21 stood yesterday, I think before the question was Page 53

22 asked, it was obvious that even the ILEC can come up

- 1 somewhat short of full utilization of a card. So I
- 2 mean I think I understand the point.
- 3 THE WITNESS: And that is correct, Your Honor.
- 4 It's just multiplied -- the problem is multiplied by
- 5 the number of CLECs.
- 6 EXAMINER WOODS: I understand that.
- 7 MS. HIGHTMAN: No pictures?
- 8 EXAMINER WOODS: No.
- 9 MR. BINNIG: I tried, Carrie. I tried.
- 10 Q. I think I may only have one more question,
- 11 Mr. Lube, and this concerns some of the discussion
- 12 you had this morning with Mr. Schifman where you
- 13 were talking about universal digital loop carriers
- 14 or UDLCs. Do you recall that discussion?
- 15 A. Yes, sir.
- 16 Q. Is there a single specified path between Page 54

- 17 an end user premise and a central office for the
- 18 data stream or data service when that data service
- 19 is provisioned over a UDLC?
- 20 A. No, there is not. In fact, as I've
- 21 described in my prefiled testimony, there is not a
- 22 specific path for a DSL service through the ATM

- 1 multiplexed bit stream, and I guess my understanding
- 2 of Mr. Schifman's question that I was answering was
- 3 that he was referring to the path that would be used
- 4 for an unbundled loop that's provided -- over which
- 5 that CLEC could provide POTS services because he had
- 6 referred to switches, and switches provide POTS, so
- 7 that's the contrast I was trying to explain at that
- 8 time.
- 9 MR. BINNIG: No further questions at this time,
- 10 Your Honor.
- 11 EXAMINATION

- 12 BY EXAMINER WOODS:
- 13 Q. In terms of the various ADLU cards, are
- 14 you committing Ameritech to purchase, inventory, and
- 15 provision every single ADLU card manufactured by
- 16 Alcatel as they come out?
- 17 A. The ADLU card specifically is for ADSL.
- 18 If you're referring to future cards that handle
- 19 other flavors --
- 20 O. Yes.
- 21 A. -- of the DSL, Your Honor, SBC is
- 22 committing to work in every way it can to be able to

- utilize every type of technology that Alcatel
- 2 creates or manufactures for this platform. The only
- 3 limitations or conditions that could apply, as I
- 4 have explained, is that if they come out with a card
- 5 that is technically capable of doing some new kind
- 6 of DSL service and that service is such a bandwidth
  Page 56

- 7 hog that for us to deploy it it would completely
- 8 affect or -- affect in a bad way all the other
- 9 services, DSL services that are using the Project
- 10 Pronto platform, then we would choose to not use
- 11 that card. I mean it's technically feasible to use
- 12 it because it works, it talks, or it passes data,
- 13 but if it does so at the expense of the platform,
- 14 you know, its capacity and other users on it, then
- 15 it would not be appropriate we believe for that to
- 16 be deployed in that platform, that type of card.
- 17 Q. And what bandwidth does it go from a
- 18 piglet to a hog?
- 19 (Laughter)
- A. Well, actually, we don't know, and we're
- 21 studying that because the first things that need to
- 22 be looked at, and I think Mr. Bowen and I had a

- 2 bit rate type quality of service classes and
- 3 permanent virtual paths which themselves occupy
- 4 dedicated chunks of the bandwidth that's in that
- 5 shared pipe, and, you know, I think we're trying
- 6 very hard to figure out how to engineer and not harm
- 7 the capacity of the platform and affect other users'
- 8 services.
- 9 Q. To your knowledge, what different types of
- 10 cards is Alcatel manufacturing at this time?
- 11 A. Attachment JPL-2 to my rebuttal, there's a
- 12 part of that response that Alcatel gave us that
- 13 refers to cards that they have current plans to
- 14 develop.
- 15 Q. No, the question was now. Now, to your
- 16 knowledge, is Alcatel supporting anything but ADSL
- 17 in their cards?
- 18 A. It supports a TDM-based HDSL which
- 19 operates on the voice side of the platform, not on
- 20 the DSL or ATM-formatted side of the platform. They
- 21 offer that today. There are other forms that
- 22 they're working on but not available today.

- We are including Alcatel and other vendors
- 2 in our collaborative sessions, and the first one, as
- 3 I mentioned yesterday, is Tuesday, October 24th, and
- 4 we hope to, you know, push on them, as the CLECs
- 5 will too I'm sure, you know, for other developments.
- 6 MR. BOWEN: Thank you, Your Honor.
- 7 RECROSS EXAMINATION
- 8 BY MR. BOWEN:
- 9 Q. Let me start with talking about bandwidth
- 10 hogs first.
- 11 A. I'm sorry. Excuse me?
- 12 Q. I want to talk about bandwidth hogs some
- 13 more. I'm getting the sense from your answer that
- 14 this is -- that all of a sudden bandwidth is some
- 15 kind of scarce resource in a brand-new architecture
- 16 like Pronto. You can't mean that, right? That
- 17 can't be what you're saying.
- 18 A. The technology has capabilities for a lot
- of bandwidth, but what we're deploying, what we're
- 20 spending the cash on today to deploy, certainly has Page 59

- 21 a specific bandwidth limitation. There are other
- 22 things that can be done with that platform, other

- 1 expenditures that we can make, if they're prudent
- 2 for us to make, that can expand that capacity. We
- 3 talked about one yesterday, wavelength division
- 4 multiplexing. So I guess my reference, Mr. Bowen,
- 5 is to what we have paid for or what we're paying for
- 6 right now to deploy in the network today.
- 7 Q. Okay. Well, the basic point of Pronto is
- 8 to try and deliver a lot more bandwidth to
- 9 customers. Isn't that fair?
- 10 A. Well, more than they've had in the past.
- 11 Q. Right. Okay, and isn't the good thing
- 12 about fiber that you just keeping bumping the
- 13 electronics and the same fibers carry more and more
- 14 width?
- 15 A. Mr. Bowen, I believe we'll be working Page 60

- 16 toward the same ends to try to utilize this platform
- 17 to the most prudent extent that we can.
- 18 Q. Okay.
- 19 A. We have a wholesale service that we want
- 20 to sell. We would not be building this platform if
- 21 we did not want to sell this wholesale service to
- 22 data carriers.

- 1 Q. Well, I don't want to get into the service
- 2 /UNE dispute again this morning, but let's just
- 3 agree that we want to get more bandwidth from you
- 4 and you want to sell us more bandwidth. Is that
- 5 fair?
- 6 A. We can start with that assumption.
- 7 Q. Okay. All right. If we tell you I've got
- 8 customers that, you know, that want to take services
- 9 that require the following amounts of bandwidth and
- 10 the total of all those demands is greater than the Page 61

- 11 current capacity the way you've configured it of an
- 12 Alcatel 2000, you can take actions to grow the
- 13 capacity, as we talked about yesterday. Right?
- 14 A. Yes, we can -- I mean physically we can
- 15 make additional expenditures to grow capacities or
- 16 to enhance capabilities.
- 17 Q. Okay.
- 18 A. Before some of those expenditures occur I
- 19 believe it would be prudent for us as a business to
- 20 understand what commitments or willingness to pay
- 21 for different features and functions that the CLEC
- 22 has so that we can recover our costs for that

- 1 investment.
- 2 Q. That was my next question. If a CLEC
- 3 tells you, as Rhythms will tell you, we are happy to
- 4 pay TELRIC-based rates for whatever we get from you,
- 5 that should satisfy that concern. Right?

- 6 A. Well, that and some indication of how much
- 7 you would intend to need, some kind of demand
- 8 forecast commitment. It's a matter of if it costs
- 9 us another \$50 million to deploy a new widget in
- 10 some RTs to provide the service that you're
- 11 specifically asking for and it turns out that you
- 12 really only were going to sell five of those, you
- 13 know, five customers, again, I think it's back to
- 14 just a normal business arrangement or relationship
- 15 that we would have that you would say this is what I
- 16 need, and we're willing to work with you on stuff
- 17 like that. This is what I need, this is my
- 18 willingness to pay at reasonable rates, you know,
- 19 based on TELRIC pricing concepts.
- 20 Q. Okay.
- 21 A. And this is the demand that I expect to
- 22 have, and if I don't get it, you know, this is a

- 1 commitment that I'm making to you so that you won't
- 2 be stuck with a lot of stranded investment out there
- 3 because we couldn't sell it.
- 4 · Q. Okay. Well, if Rhythms or other companies
- 5 come to you and say I've got a bunch of customers
- 6 that need a lot of bandwidth and I'll pay you
- 7 TELRIC- based prices, that's a good thing for SBC,
- 8 right? You get more money. You get more revenues,
- 9 and you're covering your costs, right?
- 10 A. That's why we're offering the services.
- 11 Q. So we don't have to talk about harming the
- 12 capacity of your fiber systems or bandwidth hogs.
- 13 Bandwidth hogs are good, right? You sell more
- 14 services.
- 15 A. Well, deployment decisions are based on
- 16 everything in the world from capital availability to
- 17 commitment to sell services. It would all be taken
- 18 into consideration.
- 19 Q. Don't you want to sell more services?
- 20 A. Absolutely.
- 21 Q. And more bandwidth requires more services
- 22 -- services of higher bandwidth probably command

- higher prices, right?
- 2 A. This is why we're looking at these other
- 3 possibilities or these other features such as CBR.
- 4 Q. So you should be welcoming bandwidth hogs.
- 5 Is that right?
- 6 A. I'm not going to go so far as to say that.
- 7 You have to understand that we want to sell
- 8 services. We want it to be the services that the
- 9 retail carriers want to sell, but I cannot make an
- 10 absolute commitment that any bandwidth you want to
- 11 sell that we can accommodate. I cannot do that.
- 12 The network, no matter how great the technology is
- 13 and it continues to become, it has limits. It has
- 14 limitations.
- 15 Q. Okay. Now, you were listing the cards in
- 16 response to Your Honor's questions that are
- 17 available from Alcatel right now, but I think you
- 18 forgot one. Isn't there right now an Alcatel ISDN
- 19 card that will also support IDSL?

- 20 A. Yes, also on the POTS side of the system.
- 21 That's correct.
- Q. All right. Now let's come back to the

- 1 redirect from your counsel this morning.
- One of the questions Mr. Binnig asked you
- 3 was -- again, the context here is my pointing out to
- 4 you in the May 24th Accessible Letter the
- 5 reservation of rights language that says SBC can
- 6 modify or withdraw this offering at will. Do you
- 7 recall that?
- 8 MR. BINNIG: And I'll object to the
- 9 characterization of that.
- 10 MR. BOWEN: I can reread the sentence.
- 11 Q. Do you recall the footnote I was talking
- 12 about?
- 13 A. Could I look at the footnote again,
- 14 please?

- 15 O. Sure.
- 16 I'm going to hand the witness Rhythms
- 17 Cross Lube Number 1. For context why don't you just
- 18 read that last sentence again for the record, Mr.
- 19 Lube. It's at the bottom of a bunch of the pages,
- 20 the last sentence of the footnote.
- 21 A. "The Broadband Wholesale Service,
- 22 including rates, terms and conditions, is subject to

- 1 change, modification, or withdrawal by SBC ILECs, in
- 2 their sole discretion, in whole or in part, either
- 3 before or after the service becomes operational as a
- 4 result of the matters now pending before the FCC."
- 5 Those last words are critical.
- 6 Q. Okay, and then your counsel asked you a
- 7 question so has the FCC acted, and you said yes,
- 8 they have.
- 9 A. Yes, we have; or they have. Excuse me.
  Page 67

- 10 Q. So my answer is, okay, I understand that;
- 11 I agree with that. So what's the implication of
- 12 that? That the footnote now is no longer operative?
- 13 A. Based on how I read this footnote and the
- 14 fact that the FCC has ordered that the ILEC --
- 15 excuse me -- the SBC ILECs are allowed to own that
- 16 equipment that we have been talking about, that that
- 17 would eliminate the need to alter or modify or
- 18 withdraw, in whole or in part, the service because
- 19 of that reason.
- Q. Okay. Now, you're aware that there's a
- 21 later Accessible Letter, are you not, on the same
- 22 topic?

- 1 A. Yes, I am.
- 2 Q. Let me read you a sentence out of that.
- 3 This is the September 6, 2000 Accessible Letter.
- 4 Have you seen that?

- 5 A. I have seen it, yes, sir.
- 6 Q. Okay. Let me read the first page, the
- 7 last paragraph, the first sentence, for the record.
- 8 I'm quoting here. "The SBC ILECs reserve the right
- 9 to change, modify, and/or withdraw their Broadband
- 10 Service and, in their sole discretion, in whole or
- in part, as a result of regulatory developments,
- 12 including but not limited to action or inaction on
- 13 the matters pending before the FCC." Do you recall
- 14 that language?
- 15 A. I'm not sure I had actually read that in
- 16 that Accessible Letter.
- Q. Okay. Let me show it to you. This is
- 18 attached to Ms. Chapman's testimony as Schedule
- 19 CAC-4, Mr. Lube, the last paragraph of that first
- 20 page.
- 21 A. Yes, I do see that.
- Q. Okay. Did I read that correctly?

- 1 A. I believe this is what you read.
- Q. Okay.
- 3 A. The transcript would probably --
- 4 O. I tried to --
- 5 A. -- show that.
- 6 Q. Okay.
- Well, there's a difference between those
- 8 two sentences, right? The footnote in the May 24th
- 9 letter just references the actions of the FCC, but
- 10 the later language in the more recent Accessible
- 11 Letter talks about actions including but not limited
- 12 to the FCC actions. Right? Do you need to see it
- 13 again to answer the question?
- A. No, no, sir. I understand what you're
- 15 asking. I believe that the language -- as I have
- 16 just read that with you, I believe the language in
- 17 the second letter recognizes that regulatory bodies
- 18 besides the FCC can place restrictions or make
- 19 determinations that are not economically beneficial
- 20 to SBC in terms of, you know, such as line card
- 21 ownership, and I believe that that reworded sentence
- 22 would probably be recognizing that type of

- 1 situation.
- Q. Okay.
- 3 A. I believe Ms. Chapman could probably add
- 4 to what I'm saying on that, but that would be my
- 5 network take on what that says.
- 6 Q. So you might take your ball and go home.
- 7 A. Well, as I mentioned yesterday, we have to
- 8 evaluate the economics of any regulatory decision
- 9 that affects the appropriateness of us rolling out
- 10 this voluntary platform.
- 11 Q. But put a different way, am I correct that
- 12 the most recent Accessible Letter I just referenced
- 13 you to still maintains an absolute near lateral
- 14 right on your part to modify or withdraw the
- 15 Broadband Service offering?
- 16 MR. BINNIG: Object to the extent it calls for a
- 17 legal conclusion.
- 18 MR. BOWEN: I'm asking for a nonlegal conclusion Page 71

- 19 here.
- 20 A. Okay. Actually, I don't have an opinion
- 21 about the circumstances under which SBC's ILECs may
- or may not be able to do that. Ms. Chapman might be

- 1 able to address that. I don't know.
- 2 Q. Okay. All right.
- 3 Do you recall questions from your counsel
- 4 about our SDSL type of hypothetical discussion
- 5 yesterday?
- 6 A. Yes, I do.
- 7 Q. Well, I'm not sure I understood the
- 8 context of your answers to your counsel's redirect
- 9 questions. I was asking -- I thought what you were
- 10 saying is when we roll Project Pronto, we won't take
- 11 any loops out of service so existing services can
- 12 continue, line shared or not. Wasn't that what you
- 13 were saying?

- 14 A. Well, yes, I was saying that, but I think
- 15 the point was that SDSL is not a line shared
- 16 service.
- 17 Q. I understand that, but didn't we have a
- 18 discussion that then talked about how, line shared
- 19 or not, the deployment of DSL transceivers in the
- 20 field at RTs could, in fact, affect the performance
- 21 of existing services that were deployed on all
- 22 copper, including SDSL?

- 1 A. Yes, we did have that discussion
- 2 yesterday.
- 3 Q. Okay. And you're still agreeing that,
- 4 again, whether or not the current service deployed
- 5 by a CLEC on an all copper loop is or is not line
- 6 shared, that the deployment of Pronto and
- 7 transceivers at the RTs can affect the performance
- 8 of those services. Is that right?

- 9 A. Yes. As I explained, that would be true
- 10 whether it's Project Pronto or any other CLEC's
- 11 voluntarily collocated DSLAM in an RT.
- 12 Q. Okay. Now your counsel also asked you
- 13 about new UNEs. This is -- and do you recall that
- 14 question and your answers?
- 15 A. About this Commission?
- 16 O. Yes.
- 17 A. Finding new UNEs or ordering new UNEs?
- 18 Q. Yes.
- 19 A. Yes, I do remember.
- Q. Okay. Well, let me point your attention
- 21 to the waiver order, paragraph 30 again. Now I'm
- 22 going to read you two sentences. If you need a copy

- 1 of that, maybe you still have it up there from your
- 2 counsel. I don't know.
- 3 A. Yes, I do.

- 4 Q. Okay. I want you to turn with me to
- 5 paragraph 30. I'm quoting from the FCC here in
- 6 paragraph 30, the third sentence. "We take no
- 7 position on whether SBC's Broadband offering is
- 8 subjects to Sections 251-252 or any other provisions
- 9 of the Act. Such issues may be raised in state
- 10 proceedings relating to the proposed amendments to
- 11 the interconnection agreements." Do you see that?
- 12 A. I do see that.
- 13 Q. You're not disagreeing with that part of
- 14 the FCC's statement about this Commission's ability
- 15 to find new UNEs, are you?
- 16 A. Oh, no, I'm not disagreeing with that. I
- 17 mean this is an instance where the FCC has taken no
- 18 position on whether something is a UNE. However, at
- 19 the same time, the FCC has taken a position on
- 20 packet switching, and to the extent that the
- 21 Broadband Service utilizes packet switching, I
- 22 believe the FCC has made a determination in that

- 1 instance.
- 2 Q. And we talked about that yesterday, didn't
- 3 we?
- 4 A. Yes, we did.
- 5 Q. Okay.
- 6 Let's talk about whether or not if you
- 7 were to want to retire the copper plant now being
- 8 served, whether you could or not. Do you recall
- 9 that question from your counsel?
- 10 A. Yes.
- 11 Q. In other words, would it be even feasible
- 12 to roll all existing services in distribution areas
- 13 to the Pronto architecture? Can we say it that way?
- 14 A. That was part of the essence of that
- 15 discussion.
- 16 Q. And you said there wasn't enough capacity
- 17 to do that on the current Pronto architecture.
- 18 Correct?
- 19 A. That's correct. Project Pronto is not
- 20 even deployed in all distribution areas to begin
- 21 with.
- Q. Well, okay. Let's just take one Project Page 76

- 1 Pronto RT as an example. All right? I know it's
- 2 not deployed every place, and it never will be
- 3 deployed every place, right? That's not the
- 4 architecture at all.
- 5 A. That's correct.
- 6 Q. Okay. So let's take one RT. The capacity
- of an Alcatel LiteSpan 2000 is what? 2,000 lines
- 8 roughly? 2,000 voice grade lines.
- 9 A. I believe that's correct.
- 10 Q. Okay. All right. Now, each of those
- 11 voice grade lines occupies a 64 kilobit channel on
- 12 the time division multiplexed fiber going back to
- 13 the office. Is that right?
- 14 A. That's correct.
- 15 Q. Okay. And if that -- if you had that
- 16 Alcatel LiteSpan at full capacity, meaning there
- 17 were 2,000 voice grade customers -- strike that.

  Page 77

- 18 If you currently had 2,000 voice grade
- 19 customers being served from SAIs that this RT was
- 20 not going to serve from Pronto, are you with me so
- 21 far?
- 22 A. If we had 2,000 customers -- I'm sorry.

- 1 Can you repeat that?
- 2 Q. Right. Right now we're on an all copper
- 3 distribution area route.
- 4 A. Okay.
- 5 Q. And we've got four SAIs, all right?
- 6 Serving four distribution areas. Are you with me?
- 7 A. Yes.
- 8 Q. Okay. And the total of all the customers
- 9 being served from those four SAIs is 2,000 voice
- 10 customers. Okay?
- 11 A. Okay.
- 12 Q. Now you want to put a LiteSpan 2000 RT out Page 78

- 13 there that will also serve those four same SAIs.
- 14 All right?
- 15 A. Okay.
- 16 Q. This is kind of the limit case, right,
- 17 because, you know, you would be deploying an RT that
- 18 would already be maximized with voice services, so
- 19 you probably wouldn't do that, but let's assume you
- 20 do. You're going to deploy an RT that can handle
- 21 2,000 customers, and, in fact, you have 2,000 voice
- 22 customers right now. Okay?

- 1 A. Okay.
- 2 Q. Now, you're going to take the voice
- 3 traffic back to the office on the TDM fiber. Right?
- A. If it's on the Pronto architecture?
- 5 Q. Yes.
- 6 A. Yes.
- 7 Q. So if you wanted to re-home all the copper Page 79

- 8 served customers, all those 2,000 customers, you
- 9 would have enough line cards to do that because the
- 10 capacity of the RT is 2,000 voice customers. Right?
- 11 A. If that's all the number of customers that
- 12 you have in those SAIs today collectively, that's
- 13 right. You would have that capacity, but SAIs are
- 14 not limited to -- well, in fact, I think you had
- 15 four SAIs in your example.
- 16 Q. Right.
- 17 A. An SAI is not limited -- each SAI is not
- 18 limited to a fourth of the capacity of that RT.
- 19 Q. I understand that. I just want to assume
- 20 that in total the SAIs that subtend the RT total
- 21 2,000 customers, 2,000 voice customers.
- MR. BINNIG: And the hypothetical also is four

- 1 SAIs, right?
- 2 MR. BOWEN: I don't really care, frankly. It Page 80

- 3 can be two; it can be three; it can be four.
- 4 MR. BINNIG: Can it be twenty?
- 5 MR. BOWEN: No.
- 6 (Laughter)
- 7 MR. BINNIG: I'm trying to get to reality here,
- 8 but that's okay.
- 9 Q. Isn't this reality, Mr. Lube? Don't you
- 10 have three to five SAIs subtending each RT in your
- 11 architecture?
- 12 A. Yes, but each one of those SAIs is not
- 13 limited to 3- or 400 customers.
- 14 Q. I understand that. I want you to assume
- 15 with me that there are four, and the total number of
- 16 customers served by all four of those together is
- 17 2,000 voice customers. Okay?
- 18 A. Okay. I understand the hypothetical
- 19 situation that you are describing.
- 20 Q. Okay. That would maximum out the line
- 21 card ports on the field side of the Alcatel DLC.
- 22 Right?

- 1 A. Yes.
- 2 Q. Okay. Now, each of those voice grade
- 3 pairs takes a 64 kilobit channel coming across the
- fiber, the TDM side of the fiber, right?
- 5 A. That's correct.
- 6 Q. Okay. Now, that's going to be an OC3,
- 7 right?
- 8 A. Yes, it is.
- 9 Q. Okay. Are there, in fact, 672 voice grade
- 10 channels on a DS3?
- 11 A. I haven't multiplied that out lately, but
- 12 I believe that's correct.
- 13 Q. All right. Let's do it. How many 64K
- 14 channels are there in a T1?
- 15 A. 24.
- 16 Q. And how many Tls in a DS3?
- 17 A. 28.
- 18 Q. And what's 24 times 28?
- 19 A. I suspect that's 672.
- 20 Q. Okay. Let's assume that it is.
- 21 A. Oh, it is. I trust you on that.

  Page 82

Q. Okay. How many DS3s in an OC3?

- 1 A. There's four.
- Q. And what's --
- 3 A. I'm sorry. Let me take that back. Gosh,
- 4 let me think. I am having a mental block. I think
- 5 it's three. I think it's three DS3s.
- Q. A DS3 runs at 45 megabits a second, right?
- 7 A. And it's 155 on an OC3, so it's three.
- Q. Okay.
- 9 A. Not four. I was incorrect.
- 10 Q. Okay. And what's 672 times 3?
- 11 A. It's a bunch.
- 12 Q. It's more than 2,000, isn't it?
- 13 A. Oh, yes, it is.
- Q. Okay. So you could fit all 2,000 of the
- 15 existing voice grade customers, 64 K channels, on a
- 16 fully configured Alcatel 2000 DLC across a single Page 83

- 17 TDM fiber you plan to deploy anyway, right?
- 18 A. I could have agreed with you directly on
- 19 that premise.
- 20 Q. Okay. So you could roll all the existing
- 21 voice customers that would be served by an Alcatel
- 22 2000 onto the Project Pronto architecture and retire

- 1 that copper, couldn't you?
- 2 MR. BINNIG: Wait. Are we still in hypothetical
- 3 land here or are you talking about the actual
- 4 architecture now?
- 5 MR. BOWEN: I'm talking about the actual Pronto
- 6 architecture.
- 7 MR. BINNIG: Okay.
- 8 A. Okay. In that very hypothetical
- 9 assumption that you made that there's a grand total
- of only 2,000 customers in the four SAIs combined,
- 11 then, yes, you could, but each SAI can serve more Page 84

- 12 than 500 customers.
- 13 Q. Uh-huh.
- 14 A. So, in reality, there could be many more
- 15 POTS customers out there than can be rolled to the
- 16 capacity that's in the remote terminal equipment and
- 17 the fiber.
- 18 Q. And you can simply subdivide SAIs and add
- 19 more RTs to be able to serve whatever number of
- 20 customers you want to serve, right? There's no
- 21 technical limitation on how many RTs you can place
- 22 to serve the Pronto architecture, is there?

- 1 A. Let me answer you this way. I do not
- 2 dispute the fact that with unlimited expenditures
- 3 that we couldn't add enough additional Pronto
- 4 capacity to do that. I was just saying with the
- 5 deployed capacity, there is no way to wholesale roll
- 6 every single copper customer onto the Pronto Page 85

- 7 architecture.
- 8 Q. All right. Finally, the UDLC question and
- 9 the path to the premises that your counsel asked and
- 10 that Mr. Schifman had discussed with you. Now I'm
- 11 confused by a couple of your answers. You've heard
- 12 of GR303, right?
- 13 A. Yes, I have.
- 14 Q. That's a specification, is it not, for how
- 15 a DLC in the remote terminal talks to the central
- 16 office equipment, especially the switch?
- 17 A. I think that's a reasonable
- 18 characterization.
- 19 Q. Okay. And isn't there a correspondence
- 20 between GR303 compliance and what we call NGDLC
- 21 equipment?
- 22 A. NGDLC equipment is capable of delivering

- 2 NGDLC equipment can also simultaneously deliver
- 3 services according to the two prior Bellcore
- 4 specifications, which is TR008 and TR57.
- Q. Okay.
- 6 A. And TR57 is UDLC.
- 7 Q. And TR008 is integrated digital loop
- 8 carrier, right?
- 9 A. It's one form of IDLC; that's correct.
- 10 Q. Okay. So let me understand then what
- 11 you're saying. You've agreed that there isn't a
- 12 specific path to the premises for the data services.
- 13 I want to get that straight first. What you mean by
- 14 that is you've agreed to rolling NGDLC in Project
- 15 Pronto. I mean it's not a trick question. You did
- 16 say that to Mr. Schifman, right?
- 17 A. That I'm rolling --
- 18 Q. All the Pronto DLCs will be NGDLC.
- 19 A. Yes.
- 20 Q. Okay. All right. And your discussion
- 21 about specific paths, I think I heard you say to
- 22 Mr. Binnig, focused on the TDM or the POTS side of

- 1 the transport connection. Is that right?
- 2 A. When I was answering the original question
- 3 from Mr. Schifman, he was referring to a path in his
- 4 questions, as I recall those questions, from the
- 5 switch to the end user, and so that's why I believed
- 6 he was talking about a POTS type service, so that's
- 7 why I was referring or my answers were referring to
- 8 the TDM side of the architecture.
- 9 Q. So all those three specifications, GR303,
- 10 TR008, and TR57, they deal with the TDM side of that
- 11 DLC architecture. Is that right?
- 12 A. That's correct.
- 13 Q. Okay, and in your deployment of Pronto for
- 14 DSL services, the ADSL bits will travel across a
- 15 separate fiber using ATM technology to the OCD,
- 16 right?
- 17 A. That's correct.
- 18 Q. And so they don't get involved with
- 19 integrated digital loop carrier or NGDLC, GR303, or
- 20 universal DLC issues at all.

- 21 A. No, they do not.
- MR. BOWEN: Okay. I understand.

- 1 That's all I have. Thank you, Your Honor.
- 2 MR. BINNIG: I think just one real brief line of
- 3 questions.
- 4 REDIRECT EXAMINATION
- 5 BY MR. BINNIG:
- 6 Q. Do you have Rhythms Lube Cross Exhibit 1?
- 7 A. I don't believe I have that. I think
- 8 Mr. Bowen took that back.
- 9 MR. BOWEN: It was my only copy. I apologize.
- 10 I'm required to keep my exhibits close to hand.
- 11 MR. BINNIG: I'm just trying to establish that
- 12 there's nothing hidden going on here.
- 13 Q. If you look at the second page of Rhythms
- 14 Cross Exhibit 1, which is the May 24th Accessible
- 15 Letter, does that have the exact same language in Page 89

- 16 terms of including the sentence that says including
- 17 but not limited to that appears in the September 8th
- 18 or September 6th Accessible Letter that was attached
- 19 to Ms. Chapman's testimony?
- 20 A. I'm skimming the page.
- 21 Q. The first paragraph at the top of the
- 22 page.

- 1 A. Oh, first paragraph at the top. Okay.
- 2 (Brief pause in the proceedings.)
- 3 Yes. Within this paragraph there's a
- 4 sentence that reads: "The SBC ILECs reserve the
- 5 right to change, modify and/or withdraw their
- 6 Broadband Service, in their sole discretion, in
- 7 whole or in part, as a result of regulatory
- 8 developments, including but not limited to action or
- 9 inaction on the matters pending before the FCC",
- 10 which I believe is the same sentence that I read Page 90

| 11 | from the later Accessible Letter.           |
|----|---|
| 12 | MR. BINNIG: I think that's all I had.       |
| 13 | EXAMINER WOODS: Okay. Thank you, Mr. Lube.  |
| 14 | THE WITNESS: Thank you, Your Honor.         |
| 15 | (Witness excused.)                          |
| 16 | EXAMINER WOODS: Let's take a break while we |
| 17 | change witnesses.                           |
| 18 | (Whereupon a short recess was               |
| 19 | taken, during which time                    |
| 20 | Rhythms Cross Smallwood                     |
| 21 | Exhibit 7 was marked for                    |
| 22 | identification by the Court                 |

| Τ | Reporter.)                                     |
|---|--|
| 2 | EXAMINER WOODS: We'll go back on the record.   |
| 3 | I don't believe you were here for the mass     |
| 4 | swearing. Would you stand and raise your right |
| 5 | hand.  |